METHOD AND APPARATUS FOR TUNNELING PACKETS IN A PACKET DATA SYSTEM

ABSTRACT OF THE DISCLOSURE

A packet prioritization and transmission algorithm for on demand transportation of data packets having different priorities through a shared packet pipe. The algorithm comprises prematurely ending the transmission of a packet having a low priority; placing the remainder of the packet having the low priority in a storage means, holding data of the packet having the low priority in the storage means, transmitting a packet having a high priority, transmitting the remainder of the packet having the low priority once the packet having the high priority is finished transmitting, flagging a packet header of a packet having the low priority to identify pending packets to allow for transmission of packets having the high priority; and determining a priority of an incoming packet.